

CLAIMS

1/ A part made of thermoplastic material, wherein the material comprises:

- recycled polyethylene terephthalate;
- 5 • recycled high density polyethylene;
- a compatibility agent; and
- a reinforcing filler.

2/ A part according to claim 1, wherein the thermoplastic material substantially comprises, by weight:

- 49% to 63.5% polyethylene terephthalate;
- 27% to 36% high density polyethylene;
- 4% to 6% compatibility agent; and
- 15 • 5% to 10% reinforcing filler.

3/ A part according to claim 2, wherein the thermoplastic material substantially comprises, by weight:

- 55% polyethylene terephthalate;
- 33% high density polyethylene;
- 20 • 5% compatibility agent; and
- 7% reinforcing filler.

4/ A part according to claim 1, wherein the reinforcing filler comprises glass flakes.

25

5/ A part according to claim 1, wherein the reinforcing filler comprises glass fibers.

6/ A part according to claim 1, wherein the reinforcing filler comprises glass microbeads.

30

7/ A method of manufacturing a bar according to claim 1, the method comprising the following steps:

- drying flakes of recycled polyethylene
- 35 terephthalate;
- introducing said dried flakes of polyethylene terephthalate, flakes of recycled high density

polyethylene, the compatibility agent, and the reinforcing filler into an extruder in order to obtain a paste mixture; and

- 5 · introducing the paste mixture into a mold placed directly at the outlet from the extruder.

8/ A method according to claim 7, including a subsequent step of cooling the mixture contained in the mold.

- 10 9/ A goods pallet, comprising parallel support elements having end portions fixed by assembly means to cross-connection beams resting on brackets, and wherein at least one of said elements/beams is constituted by a part in accordance with claim 1.

- 15 10/ A pallet according to claim 9, wherein at least one of the cross beams is of channel section having a top flange on which the support elements are fixed, and a web and a bottom flange which are both hollowed out by at least one notch to form on either side thereof two
- 20 brackets that are spaced apart and formed integrally with the top flange.

- 25 11/ A pallet according to claim 9, comprising at least one stiffener element extending parallel to the support element at a distance therefrom and between two opposite brackets, the stiffener element being in the form of a plank.

- 30 12/ A pallet according to claim 11, wherein the bottom surface of the plank-shaped element is grooved.

- 35 13/ A pallet according to claim 11, wherein the stiffener element comprises at least one chamfer formed in at least one of its top longitudinal edges.

0997594-145550